PROCESSING COPY

INFORMATION REPORT INFORMATION REPORT

CENTRAL INTELLIGENCE AGENCY

SECRET
NOFORN

25X1

COUNTRY Czechoslovakia

SUBJECT Czechoslovak 85-Millimeter Gun, Model 52

REPORT

DATE DISTR. 3 April 1957

NO. PAGES 1

REQUIREMENT NO. RD

REFERENCES

DATE OF INFO.

PLACE & DATE ACQ.

25X1

SOURCE EVALUATIONS ARE DEFINITIVE. APPRAISAL OF CONTENT IS TENTATIVE.

25X1

a report on the Czechoslovak 85-millimeter gun, Model 52, which is allegedly produced at the K.Y. Voroshilov Works in Dubnica nad Vahom, Slovakia. Its distribution among artillery units started in the fall of 1953.[1]

25X1

1. Comment: The date fall of 1953 is given in the report, but date of information is listed as fall 1954 to spring 1956.

SECRET
NOFORN

STATE	X	ARMY	X	NAVY	X	AIR	X	FBI		AEC					

(Note: Washington distribution indicated by "X"; Field distribution by "#".)

INFORMATION REPORT INFORMATION REPORT

1. The new Czechoslovak 85-mm gun was allegedly produced by the Vorosilov Plant in Dubnica nad Vahom. Its distribution among artillery units started in the fall of 1953. It was said that the main advantage of the new gun is its long range of fire. 25X1

2. General Characteristics

Maximum range	16,200 meters
Maximum effective range	12,000 "
Direct fire range	7,000 "
Initial velocity of the projectile	940 meter/sec.
Theoretical rate of fire	12 rounds/minute
Practical rate of fire	9 rounds/minute
Caliber	85 millimeters
Model	52
Weight in firing position	2,840 kg
Weight during transportation	2,900 kg

3. Description of the gun (see the sketch)

(1) Barrel with three gradual strengthenings in the thickness. The length is 546 cm; right-hand rifling, 24 fields and 24 grooves; barrel ends with a muzzle brake, which supposedly softens the recoil by 35 %.

(2) Double spade which opens sideways; the half-spades are worked out into eyes for road transportation. When the half-spades are opened they have automatic catches which keep them in the open position. The catches have to be pressed in when the gun is made ready for road transportation. Improvement was suggested in the way of small wheels fixed to the spade which could be raised and would thus aid in shifting the gun on small distances (now the trails must be raised in the air); new guns will allegedly have the small wheels.

(3) Wheels with full metal discs, 44 cm in diameter, with pressed on rubber tires and ball bearings; gauge 206 cm; drum brakes.

(4) Shield, about 160 x 180 cm large, 2.5 cm thick, with two openings in the left half; lowest part can be folded up for road transportation.

(5) Spring counterbalancers.

(6) Hand elevation and horizontal gears; elevation range from plus 60° to minus 30°; horizontal movement 45° on each side. Gun sights have two telescopes, one for direct aiming and another one for indirect fire.

SECRET

(7) Breechblock, wedge shaped, vertical, opens automatically during the recoil, closes automatically after the loading.

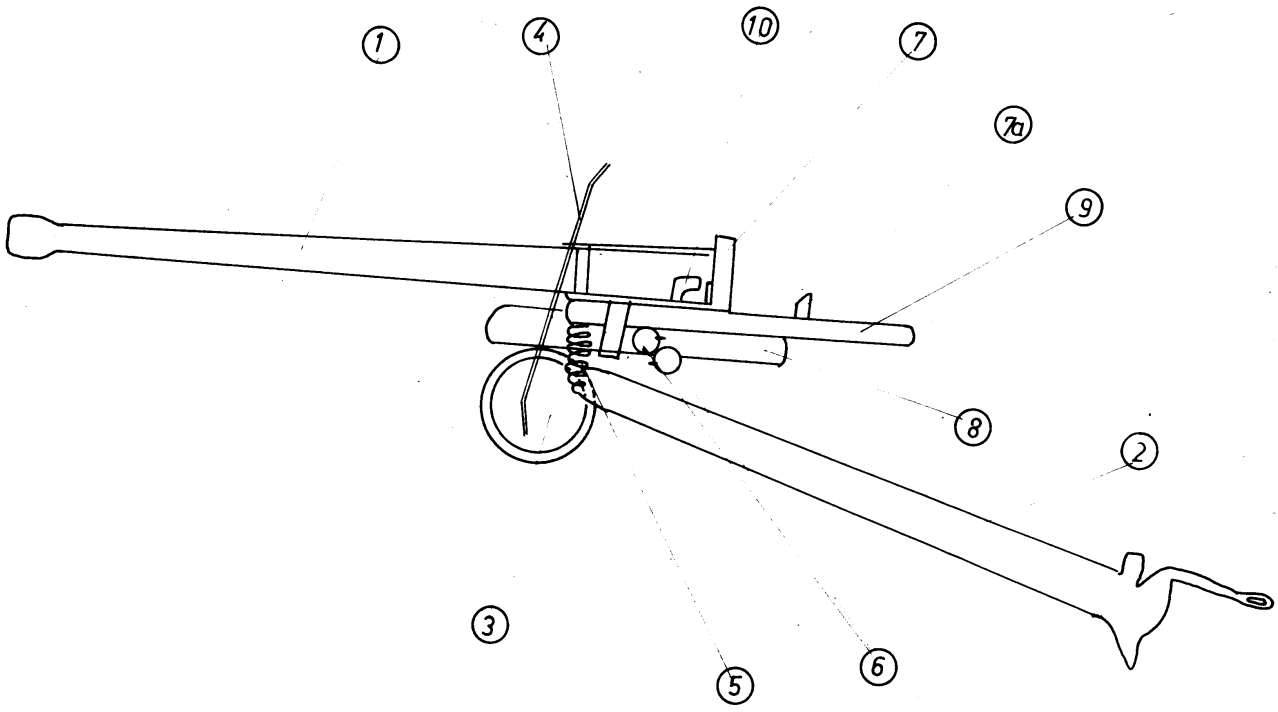
(7a) Projection for initiating the automatic opening of the breechblock.

(8) Hydraulic recoil-and-recuperator cylinder.

(9) Gliding bars along which the barrel recoils. The undercarriage contains a locking device for fixing the barrel during road transportation.

(10) Firing handle which is operated by sights setter; another firing handle with an attachment for firing cable is on the right hand side, this is operated by the loader.

4. The gun is served by a crew of five men i.e. one man less than other field guns.



25X1